

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A stent graft comprising an endoluminal stent and a graft, wherein the stent graft further comprises silk.

2. (Currently Amended) The stent graft of claim 1 wherein the silk induces ~~fibrosis~~ a fibrotic response between the stent graft and animal tissue.

3. (Currently Amended) The stent graft of claim ~~+2~~ further comprising a biologically active agent, wherein the agent ~~induces an enhanced~~ enhances the fibrotic response in a host into which the stent graft has been inserted between the stent graft and animal tissue.

4. (Original) The stent graft of claim 1 wherein the silk is natural or recombinant silkworm silk or a derivative thereof.

5. – 7. (Canceled)

8. (Original) The stent graft of claim 1 wherein the silk is natural or recombinant spider silk or a derivative thereof.

9. (Original) The stent graft of claim 1 wherein the silk is in the form of a thread.

10. (Original) The stent graft of claim 1 wherein the silk is in the form of a braid.

11. (Original) The stent graft of claim 1 wherein the silk is in the form of a sheet.

12. (Original) The stent graft of claim 1 wherein the silk is in the form of powder.

13. (Canceled)

14. (Original) The stent graft of claim 1 wherein the silk is attached to the stent graft by interweaving the silk into the graft.

15. (Canceled)

16. (Canceled)

17. (Original) The stent graft of claim 1 wherein the silk is attached only to the outside of the stent graft.

18. (Currently Amended) The stent graft of claim 1 wherein the silk is attached only to distal regions of the stent graft.

19. (Original) The stent graft of claim 1 wherein a plurality of separated silk braids is attached to the stent graft.

20. (Original) The stent graft of claim 1 wherein the silk is attached to the stent portion of the stent graft.

21. (Original) The stent graft of claim 1 wherein the silk is attached to the graft portion of the stent graft.

22. (Original) The stent graft of claim 1 wherein the silk is present on the graft in an amount effective to induce a biological response in a host into which the stent graft has been inserted, where the biological response is a cellular matrix deposition between the stent graft and tissue adjacent to the stent graft.

23. (Original) The stent graft of claim 1 wherein the silk is present on the graft in an amount effective to induce a biological response in a host into which the stent graft has been inserted, where the biological response is an extracellular matrix deposition between the stent graft and tissue adjacent to the stent graft.

24. (Currently Amended) The stent graft of claim 1 further comprising a coating on some or all of the silk, ~~wherein~~ the coating degrades upon insertion of the stent graft into a host, the coating thereby delaying contact between the silk and the host.

25. (Original) The stent graft of claim 24 wherein the coating comprises a compound selected from the group consisting of gelatin, degradable polyesters, cellulose and cellulose derivatives, polysaccharides, lipids, fatty acids, sugar esters, nucleic acid esters, polyanhydrides, polyorthoesters and polyvinylalcohol.

26. (Original) The stent graft of claim 25 wherein the degradable polyester is selected from the group consisting of PLGA, PLA, MePEG-PLGA, PLGA-PEG-PLGA, and copolymers and blends thereof.

27. (Original) The stent graft of claim 25 wherein the cellulose derivative is hydroxypropyl cellulose.

28. (Original) The stent graft of claim 25 wherein the polysaccharide is selected from the group consisting of hyaluronic acid, dextran, dextran sulfate, and chitosan.

29. (Canceled)

30. (Currently Amended) The stent graft of claim 4-2 wherein the ~~silk-fibrotic response~~ induces adhesion between the stent graft and animal tissue.

31. – 69. (Canceled)

70. (Original) The stent graft of claim 1 wherein the stent graft is bifurcated.

71. (Canceled)

72. (Canceled)

73. (Original) The stent graft of claim 1 wherein the stent graft is self-expandable.

74. (Original) The stent graft of claim 1 wherein the stent graft is balloon-expandable.

75. (Canceled)

76. (Currently Amended) The stent graft of claim 1 wherein the entire body of the stent graft is adapted to release an agent that induces fibrosis ~~in the silk~~.

77. (Canceled)

78. (Currently Amended) The stent graft of claim 1 wherein the stent graft comprises an endoluminal stent and a graft, wherein the graft comprises an expandable portion that enhances the stiffness of the stent graft upon expansion.

79. – 125. (Canceled)

126. (Currently Amended) The stent graft of claim 2-1 further comprising a proliferative agent that stimulates cellular proliferation.

127. (Original) The stent graft of claim 126 wherein the proliferative agent is selected from the group consisting of dexamethasone, isotretinoin, 17- β -estradiol, diethylstibesterol, cyclosporin A, all-trans retinoic acid (ATRA), and analogues and derivatives thereof.

128. (Currently Amended) The stent graft of claim 2-1 further comprising a biologically active agent that inhibits or prevents expansion of an aneurysm.

129. – 425. (Canceled)

426. (Previously Presented) A method for treating a patient having an aneurysm, comprising delivering to a patient a stent graft of claim 1.

427. (Original) The method of claim 426 wherein the aneurysm is an abdominal aortic aneurysm.

428. (Original) The method of claim 426 wherein the aneurysm is a thoracic aortic aneurysm.

429. (Original) The method of claim 426 wherein the aneurysm is an iliac aortic aneurysm.

430. (Canceled)

431. (Canceled)

432. (Previously Presented) A method for bypassing disease within a vessel, comprising delivering to a patient in need thereof a stent graft of claim 1, such that vessel contents bypass the diseased portion of the vessel.

433. (Canceled)

434. (Canceled)

435. (Previously Presented) A method for creating communication between an artery and a vein, comprising delivering to a patient in need thereof a stent graft of claim 1, such that a passageway is created between the artery and vein.

436. (Canceled)

437. (Canceled)

438. (Previously Presented) A method for creating communication between a first vein and a second vein, comprising delivering to a patient in need thereof a stent graft of claim 1, such that a passageway is created between the first and second veins.

439. (Canceled)

440. (Canceled)

441. (Previously Presented) A method for reducing perigraft leakage associated with stent graft delivery in a patient, comprising delivering a stent graft of claim 1 to the patient.

442. (Canceled)

443. (Canceled)

444. (Previously Presented) A method of adhering a stent graft in a patient in need thereof comprising inserting a stent graft of claim 1 into the patient.

445. (New) The stent graft of claim 1 wherein the silk is degummed silk.

446. (New) The stent graft of claim 1 wherein the silk is in the form of a mesh.

447. (New) The stent graft of claim 446 wherein the mesh is a knitted mesh.